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	Application No.	Applicant(s)
Notice of Allowability	09/524,727	JERMAN ET AL.
	Examiner	Art Unit
	Sung H. Pak	2874
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE OFFICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE OFFICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIPORT OF THE OFFICE OFFICE OF THE OFFICE OF THE OFFICE OF THE OFFICE OFFI	ars on the cover sheet with the of (OR REMAINS) CLOSED in this ap or other appropriate communicatio GHTS. This application is subject	oplication. If not included n will be mailed in due course. THIS
1. This communication is responsive to <u>Response filed 7/12/2</u>	<u>2004</u> .	
2. ☑ The allowed claim(s) is/are <u>1,5-17 and 21-37</u> .		
3. The drawings filed on 3/14/2000 are accepted by the Examiner.		
 4. ☐ Acknowledgment is made of a claim for foreign priority un a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 	been received.	
2. Certified copies of the priority documents have been received in Application No.		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)). * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" on noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be submi INFORMAL PATENT APPLICATION (PTO-152) which give		
6. CORRECTED DRAWINGS (as "replacement sheets") must	t be submitted.	
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) ☐ hereto or 2) ☐ to Paper No./Mail Date		
(b) including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the	Office action of
Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the		
 DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT F 		
Attachment(s)		
1. Notice of References Cited (PTO-892)	5. Notice of Informal I	Patent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da	
 Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 		
4. Examiner's Comment Regarding Requirement for Deposit		ent of Reasons for Allowance
of Biological Material	9.	

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DETAILED ACTION

Applicant's response filed 7/12/2004 has been carefully considered. In view of the response, the application is hereby allowed.

Allowable Subject Matter

Claims 1, 5-17, 21-37 are allowed.

The following is an examiner's statement of reasons for allowance:

An optical microswitch having a laser inlet port and plurality of outlet ports wherein micromirrors and micromotors are used to route the laser beam by moving the micromirrors into or out of the beam path is known in the art. Riza et al (US 5,208,880- dated May 4, 1993) discloses an exemplary optical microswitch having such features. However, Riza et al does not teach the use of an electrostatically driven comb drive for moving the micromirrors.

Lin (US 5,960,132- dated Sep. 28, 1999), on the other hand, explicitly teaches the use of an electrostatically driven comb drive for moving micromirrors in an optical microswitch arrangement (Fig. 16). However, Lin teaches the "hinge and plate" mechanism for attaching comb drive micromotors with micromirrors, and it does not teach micromirrors *rigidly* attached to the micromotors as claimed.

Aksyuk et al (US 6,108,466) does teach the use of an electrostatically driven comb drive *rigidly* attached to the micromirrors in an optical microswitch arrangement as claimed in the instant application, however the effective filing date of Aksyuk is Sep. 17, 1998 which is *after* the priority date of the instant application (Jan. 13, 1998). Therefore, Aksyuk et al is not a prior art.

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Since none of the prior art fairly teaches or suggests an optical microswitch comprising, electrostatically driven comb drive rigidly attached to the micromirrors among other limitations recited in the claims of the instant application, the claims are allowable.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sung H. Pak whose telephone number is (571) 272-2353. The examiner can normally be reached on Monday- Friday, 9AM-5PM.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sung H. Pak Examiner Art Unit 2874

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John D. Lee Primary Examine